

Dental Community Preparedness for the Avian/Pandemic Flu

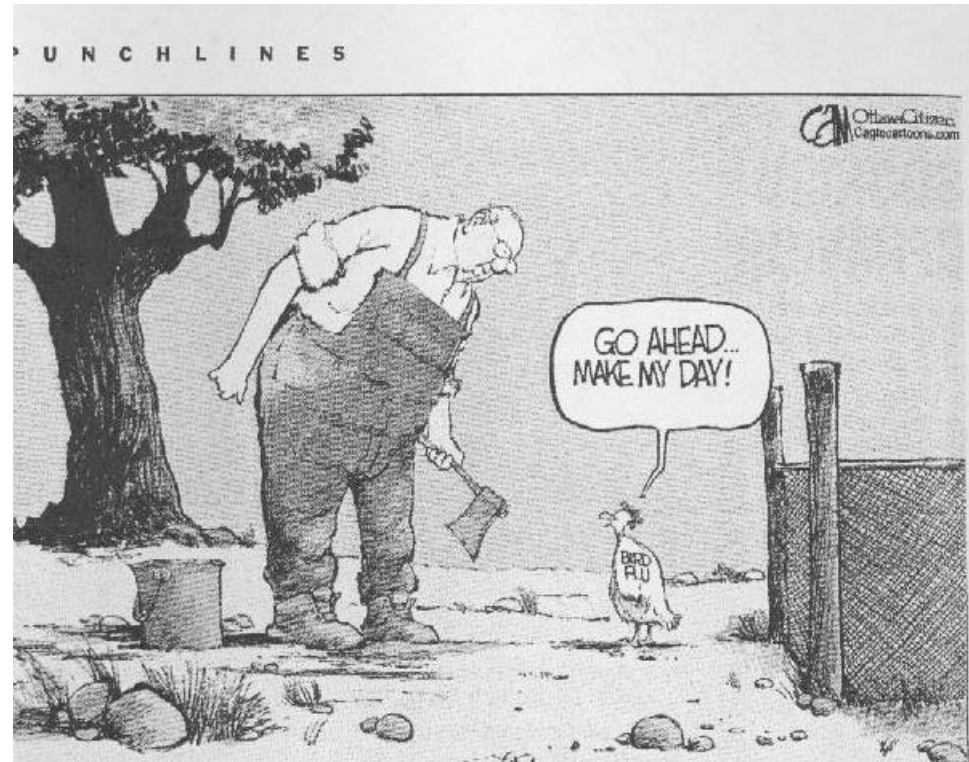


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Disclaimer

The content of this presentation does not constitute official U.S. Government, DoD, USN, or NHCGL policy.

- **Official US Government policy can be obtained at www.pandemicflu.gov**



Outline

- **Pandemic Flu- what is it?**
- **Potential Outcome and Consequences**
- **Resources**



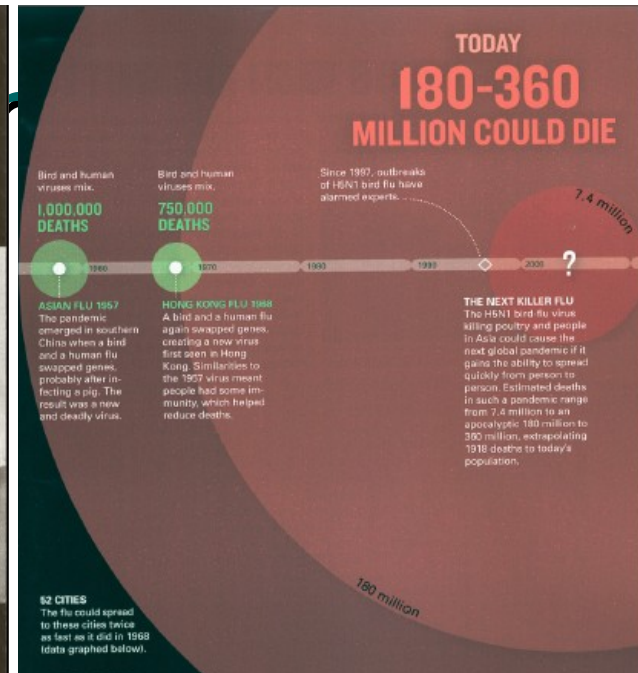
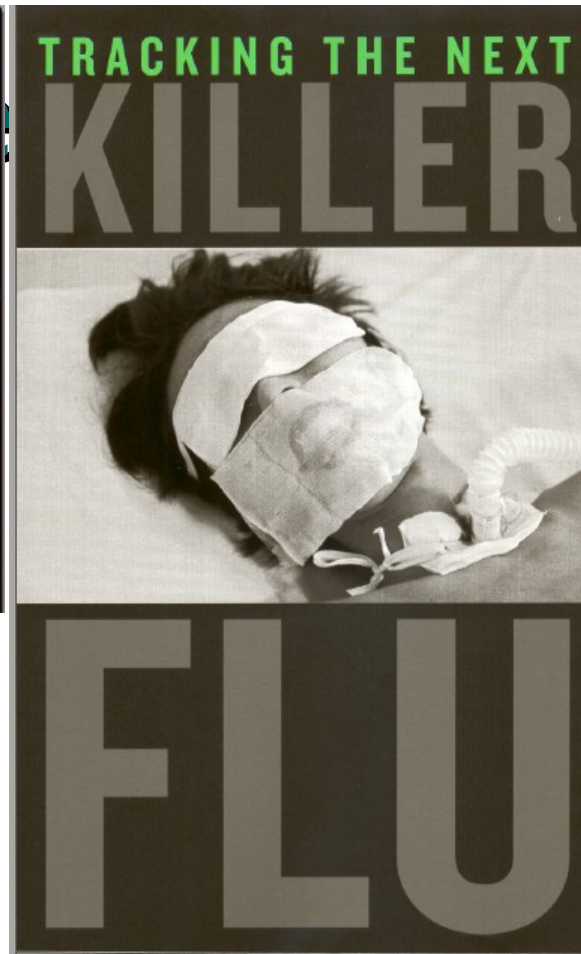
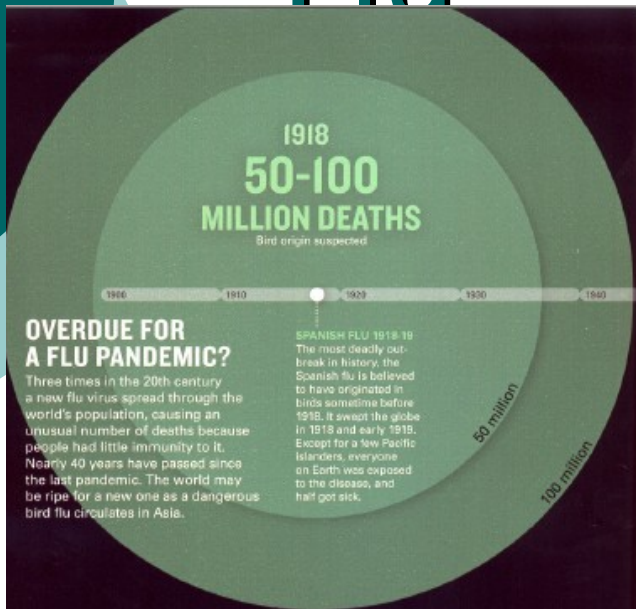
Public Awareness of the Pandemic Flu

The public is divided into four groups:

- **Group 1 (large %)**
 - Those who are blissfully unaware
- **Group 2 (large %)**
 - Those who are distantly aware but not especially concerned.
- **Group 3**
 - A smaller third group has well founded fears & are urging government action
- **Group 4**
 - A tiny fourth group is wanting to stockpile a personal inventory of Tamiflu.

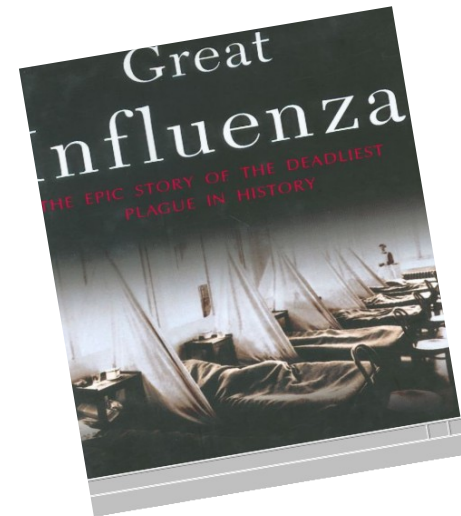
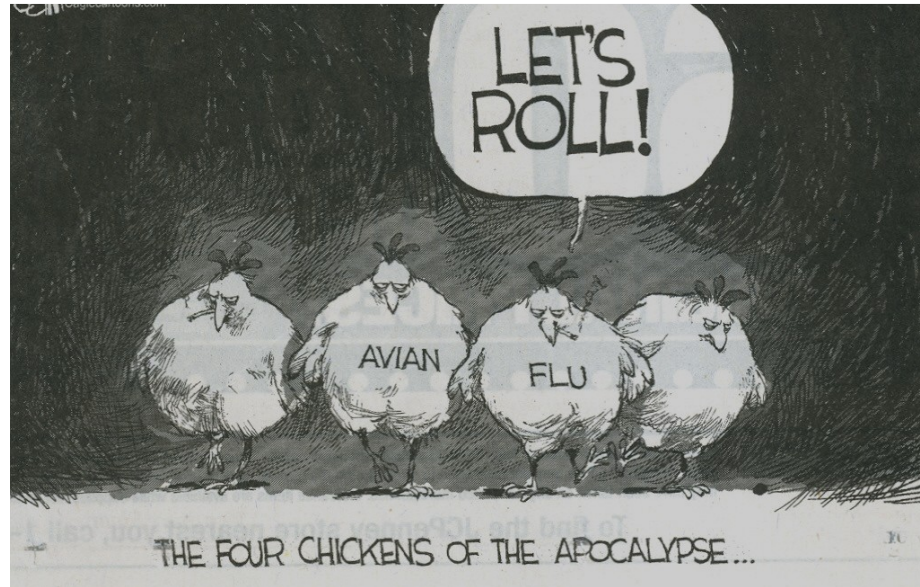


Is the H5N1 Bird (Avian) Flu



Source: National Geographic October 2005

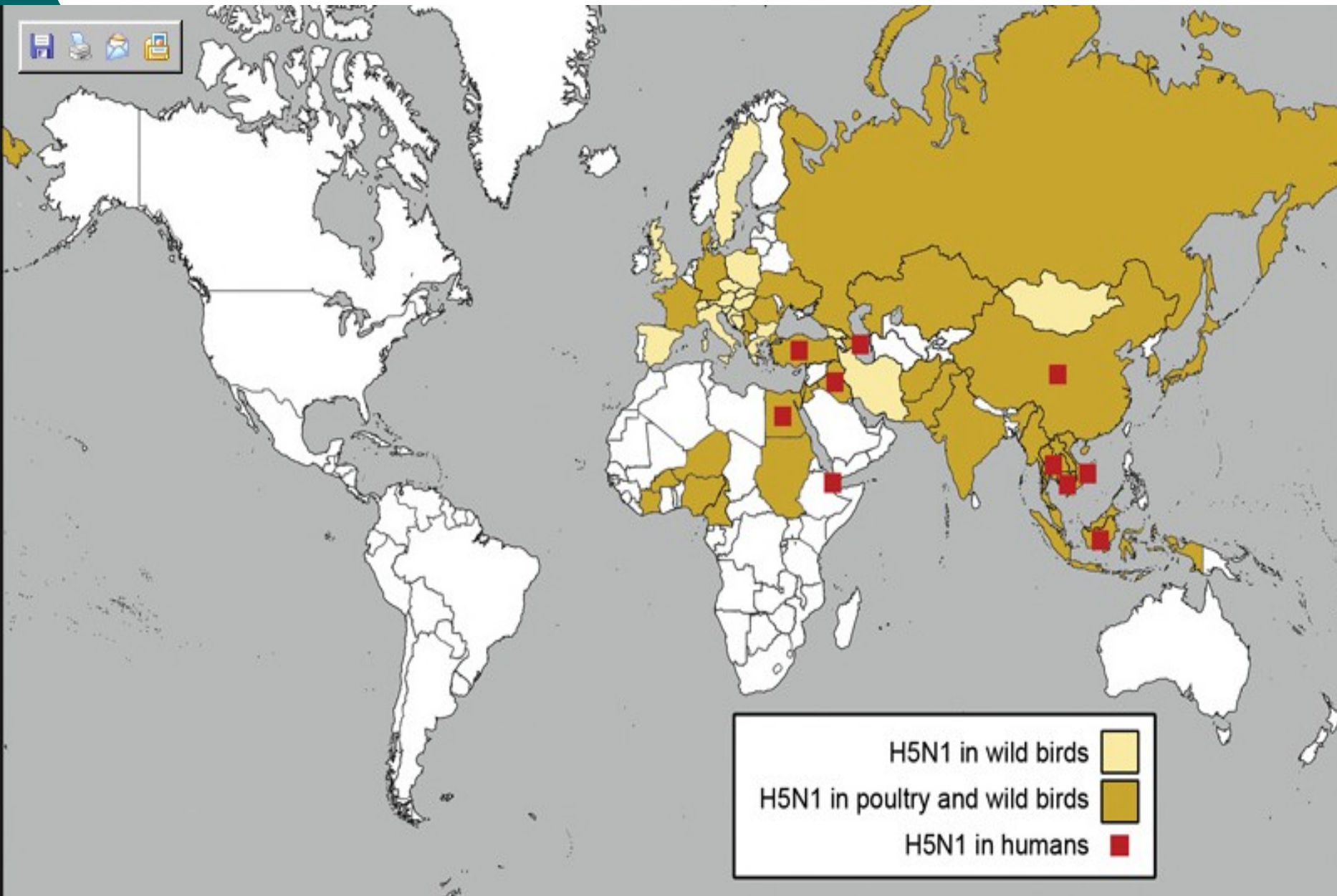
Avian Influenza is being viewed as one more false alarm. But experts around the world have stated that this one is to be ignored at our own peril. Not if, but when...

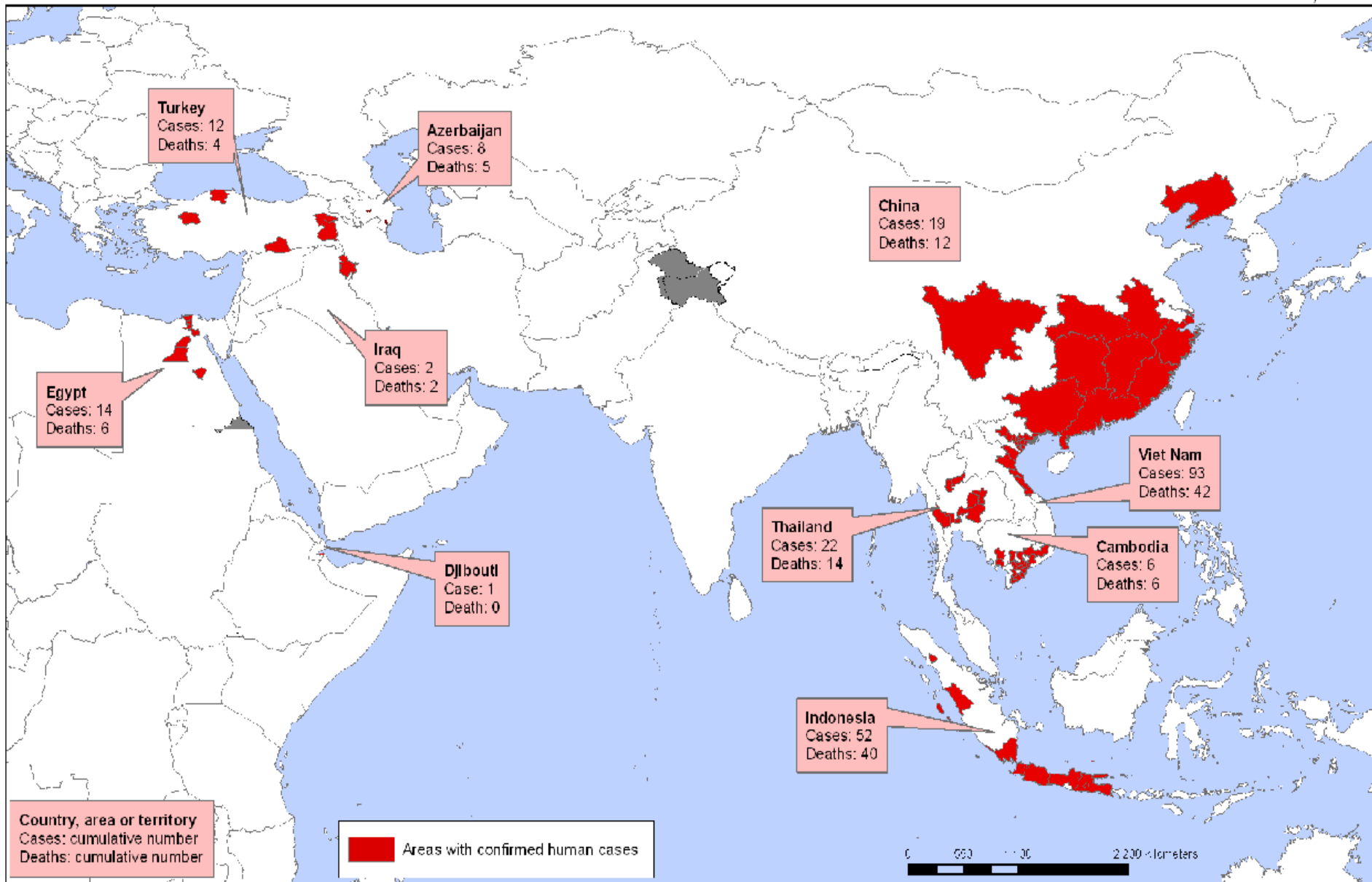


We are witnessing an historic event. We have front row seats watching this virus develop and we can do so little to stop it!

Nations With Confirmed Cases H5N1 Avian Influenza (07 July 06)

Source: www.pandemicflu.org 19 July 2006





Why Is Pandemic Influenza Important?

- **Pandemic Influenza may affect every American.**
- **The next influenza pandemic may be imminent & could be severe.**
- **Critical decisions will need to be made regarding the use of limited resources.**



Background



- **An Avian (Bird) influenza virus is currently circulating in Asia, Africa, & Europe**
 - **There have been 230 cases & with 132 deaths from infection with this virus**
 - **Transmission has been directly from birds to humans**
 - **Recent activity showed 3 level tier of person-to-person infection with mutation evident**
- **An influenza pandemic could be precipitated by mutation of this virus and potential carry through an intermediate host (pig)**
- **A pandemic caused by such a flu virus could be devastating**
- **Prevention & control depend on limitation of virus spread, appropriate use of antiviral medications, development of new vaccines & use of a rapid distribution system**

Pandemic Influenza, Seasonal Influenza, & Avian/Bird Influenza: NOT THE SAME

Seasonal

- “Garden-variety” influenza (the flu)
- **Vaccine available annually**
- **Seasonal flu vaccine will help keep Avian Flu from co-mingling with human seasonal flu**
- Generally symptoms of fever, cough, body aches

Pandemic

- Illness across multiple countries
- Potential influenza strain yet to emerge
- Can cause illness & death in healthy populations
- Past Pandemics have been avian origin and intermediate host

Avian/Bird

- Fast spreading among birds
- Quickly destroys domestic poultry
- High human death rate
- Few human cases presently but increasing
- Limited person to person has occurred
- No vaccine yet?

Human Symptoms of Avian Flu

- **Rapid onset**
- **Symptoms similar to seasonal influenza**
 - **No symptoms, fever > 39C, conjunctivitis, runny nose, stuffy nose, cough, sore throat, headache, muscle pain, weakness, nausea, abdominal pain, vomiting, diarrhea**
- **Special symptoms**
 - **Conjunctivitis, pneumonia, dyspnea, pleural effusion, hemothorax, renal failure, bleeding, shock, multi-organ failure, death**

Possible Pharmacotherapies

- **Theraflu IS NOT Tamiflu!**
- **Antiviral medication (e.g. Tamiflu® (oseltamivir))**
- **Tamiflu tablets can be used in treatment (≥ 1 yo of age) & in prophylaxis (≥ 13 yo)**
- **Stockpiling of Tamiflu®:**
 - **Only one Tamiflu factory (Roche Pharmaceuticals)**
 - **The worldwide inventory is low.**
- **Must ration Tamiflu; must not be prescribed indiscriminately.**
- **Isolated reports of Avian influenza resistance.**

Consequences If Unprepared

Absenteeism in schools & businesses

- **Business and market instability**
- **Travel restrictions**
- **Media exaggerations**
- **Clamor for vaccines and medications**
- **Short staffing for hospitals & clinics**
- **Intensive care units overwhelmed with widespread shortages of mechanical ventilators**
- **Family members become distraught**
- **Looting becomes a serious problem**
- **Deterioration in health & other essential community services**



Dentistry and Community Care

- **Hospitals may be overrun and/or quarantined**
 - Triage may be required in remote areas for referral to needed area
 - Small communities may lose all primary healthcare capability
 - Inability to transport patients out of area
- **Dental clinics in smaller communities and suburbs may become secondary treatment centers**
 - Will require planning with local hospital and health department
 - Coordinated “disaster plan”

Dental Services Impact

- **Patients**
- **Supplies**
- **Community**
- **Other support areas**





Potential Impact on Dental Practice

- **Work sick- Major NO NO!**
- **Sick patients; Scared patients**
- **Sick families; Scared families**
- **Sick Staff; Scared/Worried staff**
- **Possible Travel restrictions**
- **Possible Community quarantine**
- **Limited/No lab support**
- **Limited/No supply support**
- **Limited/No repair support**



Possible Impact on Community

Can “business as usual” be continued?

Infrastructure

- Local Governments
 - Public safety: **Cross train**
 - Law Enforcement
 - Fire
 - EMS
 - Public Utilities: **Cross train**
 - Sanitation
 - Water
 - Power, Gas, etc.
 - Maintenance
- Businesses
 - Can some onsite functions be moved offsite
 - Telecommute
 - Cross train

Points of Distribution (POD)

- **Designated location to distribute immunizations or medications**
 - **Personnel need to be trained**
 - **Needs to be distributed throughout the community**
 - **Ideal for trained Healthcare Office Staff**
 - **Support through the Medical Reserve Corps**
- **May not be able to count on the Hospital or normal healthcare facilities**



Protective Measures

- **Be informed & stay informed.**
- **Become more diligent about good hygiene.**
 - **Practice hand hygiene**
 - Wash before and after patient care
 - Wash after touching common objects (door knobs, etc.)
 - Use hand sanitizers if available
 - Mount hand sanitizers in every common area for staff and patients (lunch rooms, waiting rooms, etc.)
 - **Practice health hygiene**
 - Carry tissues/ handkerchief
 - Cough into your tissue or sleeve- not your hand
 - Avoid shaking hands

www.cdc.gov/flu/protect/covercough.htm

Stop the spread of germs that make you and others sick!

Cover your Cough



Clean your Hands

after coughing or sneezing.



Safer Healthier Home

An Ounce of Prevention Keeps the Germs Away

Follow these easy and low-cost steps to stop many infectious diseases.



Clean Your Hands Often

Keeping your hands clean is one of the best ways to keep from getting sick and spreading illnesses.



Routinely Clean and Disinfect Surfaces

Cleaning with soap, water, and scrubbing removes dirt and most germs. However, using a disinfectant cleanser kills germs, giving even better protection.



Handle and Prepare Food Safely

- Clean hands and surfaces often
- Separate – don't cross-contaminate one food with another
- Cook foods to proper temperatures
- Chill – refrigerate foods promptly



Get Immunized

Getting immunizations is easy, low-cost, and saves lives. Make sure you and your kids get the shots suggested by your doctor.



Use Antibiotics Appropriately

Antibiotics don't work against viruses such as colds and flu. Unnecessary antibiotics can be harmful. Antibiotics should be taken exactly as prescribed by your doctor.



Be Careful with Pets

Pets should be routinely cared for by a vet. Babies and children under age 5 should be washed carefully around pets and animals. Always wash hands after touching animals or animal waste.



Avoid Contact with Wild Animals

Wild animals can carry deadly diseases and pass them to you and your pets. Keep your house free of wild animals by not leaving any food around. Keep garbage cans sealed.

For information about ordering brochures and posters, please visit www.cdc.gov/ounceofprevention



Centers for Disease Control and Prevention
Coordinating Center for Infectious Diseases,
National Center for Zoonotic Diseases,
in partnership with Borden Borden Inc.,
the makers of 12300® Brand Products

SAFER • HEALTHIER • PEOPLE™



Stop the spread of germs that make you and others sick!

Cover your Cough



Clean your Hands

after coughing or sneezing.



Wash hands
with soap and
warm water

or
clean with
alcohol-based
hand cleanser



www.cdc.gov/ncidod/op/_resources/OOP%20poster%2012.13.05.pdf



Protective Measures

- **Advise health improvement**
 - **The healthier you are, the more resistant your body is to disease...**
 - **Now is the time to focus on health**
 - **Quit tobacco use**
 - **Improve eating habits**
 - **Exercise regularly**
 - **Get regular medical checkups**
 - **Recommended immunizations**

Pandemic/Avian Flu Resources

- **Illinois Department of Public Health**
 - www.idph.state.il.us/avianflu.htm
- **Federal website**
 - www.pandemicflu.gov
 - www.avianflu.gov
 - www.ready.gov
- **Centers for Disease Control**
 - www.cdc.gov
 - www.cdc.gov/flu/avian/
- **Register with the CDC**
 - www.bt.cdc.gov/clinregistry/
- **World Health Organization (WHO)**
 - www.who.int/csr/disease/avian_influenza/en/index.html



NEVER CATCH SNOWFLAKES
WITH YOUR TONGUE
UNTIL ALL THE BIRDS
HAVE GONE SOUTH
FOR THE WINTER.

Medical Reserve Corps

Resource Site



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Sponsored by: The Office of the Surgeon General

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Surgeon General Priorities

About the MRC

[Register](#) to use MRC Member Resources

[MRC Message Boards](#)



Member Login:

Password:

To serve citizens and communities throughout the United States by establishing local teams of volunteers to strengthen the public health infrastructure and improve emergency preparedness.

★ **News and Events** - Read [press releases](#) and view the MRC [Calendar of Events](#).

★ **Find an MRC Unit Near You** - Identify an MRC Unit near you and volunteer. There are [347 units](#) located across the USA.

★ **Start an MRC** - Learn how to [create your](#) own MRC unit.

★ **Resources** - Access [promising practices](#), reports, guidelines, and vital information.

★ **Questions & Answers** - Read frequently asked [questions and answers](#) about the MRC program.

★ **Surgeon General Priorities** - Learn about [Surgeon General Richard H. Carmona's priorities](#) for the health of individuals, and the nation.

★ **About the MRC** - Learn about the MRC program and find [contact information](#) for the MRC program leaders.

Did you know...?

The Oak Park, IL MRC assisted public health nurses in distributing educational materials following a pertussis outbreak and helped in the same way during a West Nile virus campaign. MRC volunteers helped with crowd control after the release of a limited supply of flu vaccine. More than 2,200 residents in the area were vaccinated during the clinics.

Quick Links

- ▶ [Join the Listserv](#)
- ▶ [Visit the Message Board](#)
- ▶ [Regional Newsletters](#)
- ▶ [MRC Spotlights](#)
- ▶ [Hurricane Response Survey](#)

Message from the Surgeon General

VADM Richard H. Carmona



Hurricane Response



<http://www.medicalreservecorps.gov/page.cfm?pageID=12>



Questions????

Please remember to share this information with your families, friends, and co-workers